

Protocol Contains CHECKPOINT INHIBITOR IMMUNOTHERAPY

Indication	<p>NSCLC Palliative: 1st line of treatment of locally advanced or metastatic disease (no treatment for early stage disease within 6 months). First line treatment* of IIIB, IIIC or metastatic non-small cell lung cancer which expresses PD-L1 with a tumour proportion score of at least 50% and is EGFR and ALK negative.</p> <p>*NB: Chemotherapy and/or radiotherapy or checkpoint inhibitor immunotherapy may have been given as neoadjuvant/adjuvant/maintenance therapy as long as treatment was completed at least 6 months prior to the diagnosis of recurrent or metastatic disease or the patient has a BRAFV600 mutation, or MET alteration, and has received 1st line therapy with a suitable targeted agent, and has now progressed on, or was unable to tolerate, the targeted agent.</p> <p>IIIB, IIIC or metastatic disease that is either previously treated or has progressed within 6 months of treatment for early stage disease. The treatment of PD-L1-positive stage IIIB, IIIC or IV NSCLC (squamous or non-squamous) after either</p> <ul style="list-style-type: none"> • Progression with at least two cycles of platinum-containing doublet chemotherapy for stage IIIB/IIIC/IV disease and a targeted treatment if they have an EGFR or ALK-positive or ROS1 or MET exon 14 or KRAS G12C or RET or BRAF V600 tumour. <p>or</p> <ul style="list-style-type: none"> • progression within 6 months of completing platinum-based adjuvant, neo-adjuvant or chemoradiation and targeted treatment if they have an EGFR, ALK-positive, ROS1, MET exon 14, KRAS G12C, RET or BRAF V600 tumour. <p>NSCLC Adjuvant: For the adjuvant treatment of stage IIA or IIB or IIIA or N2 only IIIB non-small cell lung cancer after complete tumour resection that has not progressed on recently completed adjuvant platinum-based chemotherapy (maximum of 4 cycles). Patients must have not received any neoadjuvant chemotherapy for this NSCLC or any prior or planned adjuvant radiotherapy.</p> <p>The patient either has been documented for an EGFR 19 or 21 mutation or an ALK gene fusion or the patient has a squamous cell carcinoma and a decision to not test for an EGFR 19 or 21 mutation or an ALK gene fusion and proceed with pembrolizumab has been made following discussion at the Lung Cancer MDT and consideration of the relevant patient characteristics (including age and smoking status).</p> <p>Hodgkins lymphoma Relapsed or refractory classical Hodgkins lymphoma in patients who:</p> <ul style="list-style-type: none"> A) are stem cell transplant-ineligible and have failed at least two lines of chemo and also brentuximab vedotin or B) have been treated with stem cell transplantation but have not previously received brentuximab. Or C) have received 2 prior lines of cytotoxic chemotherapy but have NOT been previously treated with stem cell transplantation or brentuximab vedotin. <p>NB the patient must have not received prior treatment with any antibody which targets PD-1 or PD-L1 or PD-L2 or CD137 or OX40 or anti-cytotoxic T-lymphocyte-associated antigen-4 (CTLA-4), for this Hodgkin lymphoma diagnosis.</p>
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Version	V16	Written by	M. Archer
Supersedes version	V15	Checked by	C. Waters H. Thomas
Date	27.04.2026	Authorising consultant (usually NOG Chair)	S. Forner A. Zeniou

	<p>Melanoma The treatment of Stage III adjuvant melanoma with lymph node involvement in adults who have had complete resection. Or Adjuvant treatment of newly diagnosed and completely resected stage IIB or stage IIC malignant melanoma.</p> <p>Adjuvant treatment must commence no more than 3 months since the date of resection.</p> <p>Advanced (unresectable or metastatic) melanoma that has not previously been treated with ipilimumab or after the disease has progressed with ipilimumab and, for BRAF V600 mutation-positive disease, a BRAF or MEK inhibitor or has a diagnosis of uveal melanoma, and has received treatment with tebentafusp in the first line setting, and has stopped this therapy due to disease progression, or lack of tolerance.</p> <p>Head and Neck For previously untreated metastatic or unresectable recurrent PD-L1 positive head and neck squamous cell carcinoma.</p> <p>Colorectal For the 1st line treatment of patients with metastatic or locally advanced and inoperable colorectal cancer exhibiting microsatellite instability-high (MSI-H) or mismatch repair deficiency (dMMR). For previously treated unresectable or metastatic colorectal cancer exhibiting MSI-H or dMMR in patients unsuitable for nivolumab plus ipilimumab therapy.</p> <p>Renal cell carcinoma For the adjuvant treatment of renal cell carcinoma at increased risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions. Treatment must commence no more than 12 weeks since the date of nephrectomy or metastasectomy.</p> <p>Gynae For the treatment of advanced or recurrent or metastatic endometrial carcinoma exhibiting MSI-H or dMMR, in patients who have progressive disease during or following prior platinum-containing therapy given in any setting for advanced or recurrent or metastatic disease and who are not candidates for potentially curative surgery or radiotherapy or chemoradiotherapy.</p> <p>UGI For previously treated unresectable or metastatic gastric, small intestinal or biliary tract cancer exhibiting MSI-H or dMMR.</p>
Treatment Intent	<p>Palliative / Adjuvant (melanoma, NSCLC and RCC only)</p> <p>Disease modification (Hodgkins lymphoma only)</p>
Frequency and number of cycles	<p>There are 4 alternative dosing schedules for pembrolizumab</p> <p>Schedule 1 200mg intravenous every 3 weeks Schedule 2 400mg intravenous every 6 weeks Schedule 3 395mg sub cutaneous every 3 weeks Schedule 4 790mg sub cutaneous every 6 weeks (preferred dosing schedule)</p>

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	<p>Patients can switch between SC and IV therapy if the clinical need arises, the switch takes place at the next scheduled dose.</p> <p>NB the 6-weekly schedule of SC administration of pembrolizumab should be used unless there are clear clinical reasons for preferring the 6-weekly IV schedule or the 3-weekly schedule (SC or IV).</p> <p>Adjuvant melanoma and RCC: Every 3 weeks: Treatment with pembrolizumab will be continued for a maximum of 12 months (or a maximum of 17 cycles when given 3-weekly) from the start of treatment in the absence of disease recurrence, unacceptable toxicity or withdrawal of patient consent. Every 6 weeks: Treatment with pembrolizumab will be continued for a maximum of 12 months (or a maximum of 9 cycles as given 6-weekly) from the start of treatment in the absence of disease recurrence, unacceptable toxicity or withdrawal of patient consent.</p> <p>Adjuvant NSCLC (within 12 weeks of the last cycle of adjuvant platinum-based chemotherapy) Every 3 weeks: Pembrolizumab will be continued for 1 year in total duration of treatment (or a maximum of 18 cycles when given 3-weekly) from the start of treatment in the absence of disease recurrence, unacceptable toxicity or withdrawal of patient consent. Every 6 weeks: Pembrolizumab will be continued for 1 year in total duration of treatment (or a maximum of 9 cycles as given 6-weekly) from the start of treatment in the absence of disease recurrence, unacceptable toxicity or withdrawal of patient consent.</p> <p>Advanced melanoma: Until disease progression, unacceptable toxicity, or physician discretion (e.g. sustained complete response) or patient choice. Pembrolizumab may be discontinued after a minimum of 2 years on treatment, and then re-started at disease progression.</p> <p>NSCLC (palliative), Colorectal, Gynae, UGI, Hodgkin’s Lymphoma and Head & Neck: The patient will receive a maximum treatment duration of 2 years of uninterrupted treatment or 35 administrations of pembrolizumab every 3 weeks (or 17 administrations every 6 weeks), whichever is later.</p> <p>NB Atypical responses (i.e. an initial transient increase in tumour size or small new lesions within the first few months followed by tumour shrinkage) have been observed. It is recommended to continue treatment for clinically stable patients with initial evidence of disease progression until further disease progression is confirmed.</p> <p>A formal medical review as to whether treatment with pembrolizumab should continue or not should be scheduled in line with commissioning criteria.</p>
<p>Monitoring Parameters</p>	<ul style="list-style-type: none"> • Virology screening: All new patients referred for systemic anti-cancer treatment should be screened for hepatitis B and C and the result reviewed prior to the start of treatment. Patients not previously tested who are starting a new line of treatment, should also be screened for hepatitis B and C. Further virology screening will be performed following individual risk assessment and clinician discretion. • Monitor FBC, U&Es, LFTs, LDH, Ca++ and glucose at each cycle. • In addition, for 6 weekly pembrolizumab, monitor FBC, U&Es, LFTs, LDH, Ca++ and glucose 3 weeks after first dose at nurse review. • If PLT <75 or neuts <1.0 d/w consultant.

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	<ul style="list-style-type: none"> • Thyroid function must be assessed at baseline then every 6-8 weeks or as clinically indicated. • Cortisol monitoring should be undertaken in line with ESMO immunotherapy toxicity guidance available on KMCC website (see link below). Cortisol level should not be taken within 24 hours of the last steroid dose. • Pre-treatment cardiac assessment: <ul style="list-style-type: none"> ○ ECG baseline, then every 6-9 weeks or as clinically indicated. ○ Check BNP, and Troponin T prior to treatment. • Confirm the patient has no symptomatically active brain metastases or leptomeningeal metastases. • Hepatic impairment: <ul style="list-style-type: none"> ○ Prior to treatment: No dose adjustment is needed for patients with for mild or moderate hepatic impairment. Pembrolizumab has not been studied in patients with severe hepatic impairment (bilirubin > 1.5 x ULN, ALT, AST > 2.5 x ULN in the absence of liver metastases at baseline). ○ During treatment: For immune related hepatitis see immune related toxicity guidance below. • Renal impairment: No specific dose adjustment is necessary in patients with mild to moderate renal impairment. Severe renal impairment d/w consultant, pembrolizumab has not been studied in patients with CrCl < 30ml/min. • The use of systemic corticosteroids or immunosuppressants before starting pembrolizumab should be avoided. Systemic corticosteroids or other immunosuppressants can be used after starting pembrolizumab to treat immune-related adverse reactions. • Dose reductions: dose reductions are not recommended. Dosing delay or discontinuation may be required based on individual safety and tolerability. • Immune-related adverse reactions may appear during or after treatment. The most common immune-related reactions are: pneumonitis, colitis, nephritis, hepatitis, symptomatic hypophysitis, hyperthyroidism, hypothyroidism and type 1 diabetes. The following additional, immune related adverse reactions have been reported in patients receiving pembrolizumab: uveitis, arthritis, myositis, pancreatitis, severe skin reactions, myasthenic syndrome, encephalitis, Guillian-Barre syndrome, optic neuritis, rhabdomyolysis, sarcoidosis, myocarditis, haemolytic anaemia and partial seizures arising in a patient with inflammatory foci in brain parenchyma. • See guidelines for management of immune-related adverse reactions following immunotherapy: https://www.kmcc.nhs.uk/medicines-and-prescribing-incorporating-sact-pathways/immunotherapy/ • Cases of Stevens-Johnson syndrome (SJS) and toxic epidermal necrolysis (TEN), some with fatal outcome, have been reported. For signs or symptoms of SJS or TEN, pembrolizumab should be withheld and the patient should be referred to a specialised unit for assessment and treatment. If SJS or TEN is confirmed, pembrolizumab should be permanently discontinued. • Infusion / injection related reactions: • Severe <u>infusion-related reactions</u> have been reported in patients receiving pembrolizumab. <ul style="list-style-type: none"> ○ For severe infusion reactions (grade 3-4), infusion should be stopped and pembrolizumab permanently discontinued. ○ Patients with mild or moderate infusion reaction may continue to receive pembrolizumab with close monitoring; premedication with antipyretic and antihistamine may be considered. • Sub cutaneous administration: <ul style="list-style-type: none"> ○ If SC Injection is being prepared on the ward Trust SOP should be followed. ○ Remove from fridge and allow to reach room temperature for at least 30 minutes before administration. ○ Withdraw the required volume either 2.4 mL (395 mg) or 4.8 mL (790 mg) using a sterile syringe and a transfer needle (18-21G recommended), according to the recommended dosage. To avoid needle clogging, change the needle to a 25-30G, 13 mm hypodermic injection needle immediately prior to subcutaneous injection. ○ Inject into the subcutaneous tissue of the thigh or abdomen, avoiding 5cm area around the naval.
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	<ul style="list-style-type: none"> ○ Rotate injection sites for subsequent injection, selecting a site that is 2.5 cm from the previous injection site. ○ Do not inject into areas where the skin is damaged, sore, bruised, scarred, scaly, or has red patches. ○ During the treatment other medicinal products for subcutaneous administration should be injected at different sites. ● Pembrolizumab may be restarted within 12 weeks beyond the expected cycle length if an adverse reaction remains at Grade ≤ 1 and corticosteroid dose has been reduced to ≤ 10 mg prednisone or equivalent per day. ● Missed dose: If a planned dose is missed, the next dose should be administered as soon as possible. The administration schedule must be adjusted to maintain a 3-week (or 6-week where appropriate) interval between doses. ● Common drug interactions (for comprehensive list refer to BNF/SPC): <ul style="list-style-type: none"> ○ The use of systemic corticosteroids or immunosuppressants before starting pembrolizumab should be avoided. Systemic corticosteroids or other immunosuppressants can be used after starting pembrolizumab to treat immune related adverse reactions. ● Driving and Machinery: Pembrolizumab may have a minor influence on the ability to drive and use machines. Fatigue has been reported following administration of pembrolizumab. ● Pregnancy and Contraception: Women of childbearing potential should use effective contraception during treatment with pembrolizumab and for at least 4 months after the last dose of pembrolizumab. ● Each patient should be given a copy of the relevant Keytruda[®] patient alert card at each cycle. ● Patients must be advised to contact the oncology team or the 24-hour hot-line immediately if they experience any side effect, as some side effects worsen rapidly. Prompt management of side effects can ensure that the patient continues with treatment.
References	KMCC protocol MULTI-003 V15 CDF list V1.387 accessed online 04.03.2026 SPC accessed online 03.03.2026

NB for funding information, refer to the CDF and NICE Drugs funding spread sheet

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Schedule 1 Intravenous administration: Repeat every 21 days

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Metoclopramide	20mg	PO		stat
	PEMBROLIZUMAB	200mg	IV	30 min	In 100ml Sodium Chloride 0.9% via in-line low-protein binding 0.22 microns filter. Flush the line with sodium chloride 0.9% for injection at the end of the infusion.
TTO	Drug	Dose	Route	Directions	
Day 1	Metoclopramide	10mg	PO	Up to TDS PRN (max. 30mg per day including 20mg pre-chemo dose). Do not take for more than 5 days continuously.	

Schedule 2 Intravenous administration: Repeat every 42 days

Day	Drug	Dose	Route	Infusion Duration	Administration
1	Metoclopramide	20mg	PO		stat
	PEMBROLIZUMAB	400mg	IV	30 min	In 100ml Sodium Chloride 0.9% via in-line low-protein binding 0.22 microns filter. Flush the line with sodium chloride 0.9% for injection at the end of the infusion.
TTO	Drug	Dose	Route	Directions	
Day 1	Metoclopramide	10mg	PO	Up to TDS PRN (max. 30mg per day including 20mg pre-chemo dose). Do not take for more than 5 days continuously.	

Schedule 3 Sub cutaneous administration: Repeat every 21 days

Day	Drug	Dose	Route	Injection Duration	Administration
1	Metoclopramide	20mg	PO		stat
	PEMBROLIZUMAB	395mg	SC	1 min	Inject into the subcutaneous tissue of the left or right thigh or abdomen, avoiding 5cm area around the naval. Do not inject at other sites of the body. Injection sites should be rotated for successive injections.
TTO	Drug	Dose	Route	Directions	
Day 1	Metoclopramide	10mg	PO	Up to TDS PRN (max. 30mg per day including 20mg pre-chemo dose). Do not take for more than 5 days continuously.	

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Schedule 4 Sub cutaneous administration: Repeat every 42 days (preferred dosing schedule)

Day	Drug	Dose	Route	Injection Duration	Administration
1	Metoclopramide	20mg	PO		stat
	PEMBROLIZUMAB	790mg	SC	2 mins	Inject into the subcutaneous tissue of the left or right thigh or abdomen, avoiding 5cm area around the naval. Do not inject at other sites of the body. Injection sites should be rotated for successive injections.
TTO	Drug	Dose	Route	Directions	
Day 1	Metoclopramide	10mg	PO	Up to TDS PRN (max. 30mg per day including 20mg pre-chemo dose). Do not take for more than 5 days continuously.	

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